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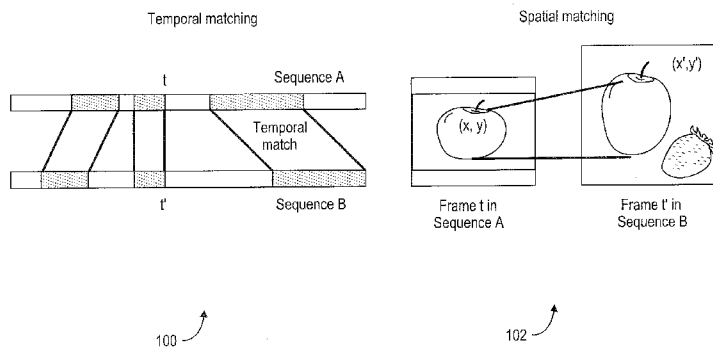
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(54) **Title:** METHODS AND SYSTEMS FOR REPRESENTATION AND MATCHING OF VIDEO CONTENT

**FIG. 1**

(57) **Abstract:** The described methods and systems provide for the representation and matching of video content, including spatio-temporal matching of different video sequences. A particular method of determining temporal correspondence between different sets of video data inputs the sets of video data and represents the video data as ordered sequences of visual nucleotides. Temporally corresponding subsets of video data are determined by aligning the sequences of visual nucleotides.

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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X --- Y Y Y Y	US 6,173,275 B1 (Caid et al.) 09 January 2001, see entire document. US 2005/0238238 A1 (Xu et al.) 27 October 2005, see entire document. US 2005/0169529 A1 (Owechko et al.) 04 August 2005, see entire document. US 2007/0217676 A1 (Graumant et al.) 20 September 2007, see entire document,	1-3, 6-7, 12, 14, 16-19 ----- 5, 8, 13, 15, 20 8 and 20 13 15		
☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.				
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1.	☐ Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	☐ Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	☐ Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
1.	☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.
3.	☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest	☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. ☐ No protest accompanied the payment of additional search fees.